Confirmation No. 2785

Rappsacred certifies that this correspondence is being sent via first-class mail with sufficient postage in an envelope addressed to the Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450, this 2014 day of August 2004

Linda S. Evans

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant:

Bittner et al.

Atty. Docket: ORT1563NP

Serial No.:

10/753,107

Art Unit:

1631

Filed:

January 6, 2004

Examiner:

unknown

For:

Methods And Algorithms For Performing Quality Control During

Gene Expression Profiling On DNA Microarray Technology

Commissioner for Patents P.O. Box 1450 Alexandria, VA 22313-1450

INFORMATION DISCLOSURE STATEMENT

Sir:

Pursuant to 37 C.F.R. § 1.56 and in accordance with 37 C.F.R. §§ 1.97-1.98, Applicant submits the accompanying Form PTO-1449 citing references relating to the application.

This Statement is being filed under the provisions of 37 C.F.R. § 1.97(b)(3), i.e., before the mailing of a first Office Action on the merits. In the event that a first Office Action on the merits has been mailed, then this Statement is being filed under 37 C.F.R. § 1.97(c)(2) and the Commissioner is requested to charge Deposit Account No. 10-0750 for the \$180.00 fee set forth in 37 C.F.R. § 1.17(p).

A copy of each reference listed on the Form PTO-1449 is enclosed. reference is in the English language.

09/01/2004 SSITHIB1 00000048 100750

01 FC:1806

180.00 DA

This Statement should not be construed as an admission that any information provided herewith is material as that term is defined in 37 C.F.R. § 1.56(b) or that any cited reference qualifies as prior art. This Statement should not be construed as a representation that a search has been made, or that information more material does not exist.

The Examiner is respectfully requested to initial the citations on the Form PTO-1449 to confirm consideration of each reference.

If any fees are due in connection with the filing of this Statement, please charge any necessary fees to Deposit Account No. 10-0750.

Respectfully submitted,

Date: August <u>30</u>, 2004.

Linda S. Evans Reg. No. 33,873

Johnson & Johnson One Johnson & Johnson Plaza New Brunswick, New Jersey 08933-7003 (858) 320-3406

| , (| SEP | | | | | | | | | | | Shee | t1_ | of6 | | | |
|---------------------|-----------------|---------------|-----|----------------|-------------|------------|-------------|-------------|----------------------------------|------------------|----------------------------------------------------|-----------|-----------------------------|-------------------------------|--|--|--|
| FORM PTO- | 1449* <i>TR</i> | ADE' | | | | | | | OF COMMERCE EMARK OFFICE | | DOCKET NO. 563NP | | | | | | |
| | FORM | | | | | | | | | | APPLICANT Bittner et al. | | | | | | |
| _ | (Use s | | _ | | | | | | | FILING 06 Ja | DATE Inuary 2004 | | | | | | |
| | | | | | | | | | U.S. PAT | TENT | DOCUMENTS | | | | | | |
| EXAMINER INITIAL | | D | OC! | UME | NT | NU | IMB! | ER | DATE | | INVENTORS | CLASS | SUBCLASS | FILING DATE IF APPROPRIATE | | | |
| | US | 3 | 8 | 1 | 7 | 8 | 3 | 7 | June 18, 1974 | 4 | Rubenstein et al. | | | | | | |
| | US | 3 | 8 | 5 | 0 | 7 | | | November 26 | | Schuurs et al. | | | | | | |
| | US | 3 | 9 | | 9 | 3 | | | February 17, | | Kronick et al. | | , | | | | |
| | US | 3 | 9 | | | 3 | | 5 | | | Ullman et al. | | | | | | |
| | US | $\overline{}$ | 2 | | | 1 | | | June 23, 1981 | 1 | Litman et al. | | | | | | |
| | US | 4 | 2 | 7 | 7 | 4 | 3 | 7 | July 7, 1981 | | Maggio | | | | | | |
| | _ | | | | | | | | | PATE | NT DOCUMENTS | | | | | | |
| | | | | | | | MBI | | DATE | | COUNTRY/REGION | CLASS | TRANSLATION (if applicable) | | | | |
| | wo | 9 | 5 | 3 | 5 | 5 | 0 | 5 | December 28 | <u>, 1995</u> | WIPO | <u> </u> | | | | | |
| | | <u> </u> | _ | <u> </u> | <u> </u> | ļ | <u> </u> | _ | | | | | | | | | |
| | | _ | | | | <u> </u> | - | | | | | | | | | | |
| | l | <u> </u> | | | <u></u> | Ļ | | | NTO (Laster) | | T'Al . D.A . D. A' . | <u> </u> | | | | | |
| | 1 | т— | | | | | | | | | nor, Title, Date, Pertin | | | N ! d . | | | |
| | | | Sy | nth <i>hen</i> | es 1., \ | is. Vol | 2-N . 39 | itro (2) | benzyloxycarb , pp. 192-196 (| onylam (1974) | Groups Of Amino Sugar ino And 6-Nitroveratrylo | xycarbo | nylamino De | erivatives," J. Org. | | | |
| | | | In | Vit | ro / | <u>Am</u> | plifi | cat | ion Scheme," (| Gene, V | Strand Ligations By Esc ol. 89, pp. 117-122 (19 | 90) | | • | | | |
| | | | | | | | | | | | osphoramidites-A New (nedron Lett., Vol. 22(20 | | | | | | |
| | | | Be | au | caç | ge (| et a | l., " | Advances In T | he Synt | thesis Of Oligonucleotic p. 2223-2311 (1992) | | | | | | |
| | | | Ві | anc | ha | rd (| et a | l., " | High-Density C | | cleotide Arrays," <i>Bioser</i> | sors and | d Bioelectron | nics, Vol. 11(6/7), | | | |
| | | + | | | | | 0 (1 "ı | | | Analye | is Of Microarray Gene | Evnrosoi | on Data By | Lleina Support | | | |
| | | 1 | | | | | | | | | i. <i>USA</i> , Vol. 97(1), pp. 2 | | | oairig aupport | | | |
| | · · | \vdash | | | | | | | | | ds for Synthesizing Poly | | | Acids Symp. | | | |
| | | | | | | | | | . 215-223 (198 | | | | , | - | | | |
| | | | CI | nen | et | al., | , "Ŕ | atio | o-Based Decision | ons And | d The Quantitative Anal | ysis Of c | DNA Micros | ırray İmages," <i>J</i> . | | | |

EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

DATE CONSIDERED

65-73 (1998)

EXAMINER

Biomed. Optics, Vol. 2(4), pp. 364-367 (1997)
Cho et al., "A Genome-Wide Transcriptional Analysis Of The Mitotic Cell Cycle," Mol. Cell, Vol. 2, pp.

| | | | | | | | | | | • | | Shee | t2 | | _ of | 66 | | | |
|---------------------|----------------|---------|----------|------------|--------------|----------------------------------------------|-------------|----------------|------------------|-----------------------|-----------------------------------------------------------------------|--------------------------------------------------|----------------------------------|--------------|-----------------|--------------------|--|--|--|
| FORM PTO- | 1449 | | U. | S. C | DEP | AR | TME | NT | OF COMMERCE | ATTY. DO | CKET NO. | SERIAL | NO. | | | | | | |
| | | | PA | ATE | NT A | ANI | D TF | RAD | EMARK OFFICE | | | 10/75 | 2 107 | | | | | | |
| | | | | | | | | | • | | ORT1563NP 10/753,107 APPLICANT Bittner et al. | | | | | | | | |
| | FORM | | _ | | | _ | | | | | | | | | | | | | |
| C | ITATI: Use) | | | | | | | | | FILING DA | | GROUP ART UNIT | | | | | | | |
| | (USE | seve | rais | SHE | ers i | 1 116 | eces | isar | у) | | uary 2004 | 1631 | | | | | | | |
| | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | U.S. PA | TENT D | OCUMENTS | - | | | | | | | |
| EXAMINER INITIAL | | D | ocı | UME | ENT | NU | IMBI | ER | DAT | DATE INVENTORS | | | | s | | G DATE ROPRIATE | | | |
| | US | 4 | 3 | 6 | 6 | 2 | 4 | 1 | December 28 | , 1982 | Tom et al. | 1 | | \dashv | | | | | |
| | US | 4 | 4 | 1 | 5 | | 3 | 2 | November 15 | | Caruthers et al. | | | \neg | ·· | | | | |
| | US | 4 | | 5 | 8 | | | 6 | July 3, 1984 | | Caruthers et al. | | | | | | | | |
| | US | 4 | | 2 | 5 | _ | - | 7 | February 16, | | Köster et al. | | | _ | | | | | |
| | US | 4 | _ | 8 | | _ | 6 | 0 | December 25 | | Molko et al. | - | | _ | | | | | |
| | US | | | | | | | + | November 27 | <u> </u> | Caruthers et al. | | | \dashv | | | | | |
| | | | | | | | + | | | Pirrung et al. Holmes | + | - | \dashv | | | | | | |
| | 100 | 10 | 12 | <u> </u> | 12 | <u> </u> | 1.′_ | 17, | [Ocptember 7, | 1000 | THORNES | .l | l | | | | | | |
| | | | | | | | | | FOREIGN F | PATENT | DOCUMENTS | | | | | | | | |
| | | D | oci | UME | ENT | NU | МВ | ER | DATI | | COUNTRY/REGION | CLASS | SUBCLAS | SS | | SLATION | | | |
| | | - | _ | 1 | 1 | Ι. | Τ- | Τ | | | | - | | \dashv | (if ap | plicable) | | | |
| | | + | ╁ | - | - | \vdash | ╁ | ┢ | | | | | | \dashv | | | | | |
| | | ╁ | \vdash | \vdash | \vdash | H | t | | | | | | | \dashv | | | | | |
| | | | | | | | | · · · · · | <u> </u> | | | | | | | | | | |
| | 1 | | OT | HE | R | 00 | CU | ME | NTS (Includi | ng Autho | r, Title, Date, Pertin | ent Pag | es, Etc.) | | | | | | |
| | | | | | jan, p. 1 | | | | | tiling Using | g cDNA Microarrays, | " Nature | Genetics | s Su | ppleme | ent, Vol. | | | |
| | | + | | | | | | | | nd Display | Of Genome-Wide E | xpression | on Patterr | ns." | Proc. N | lati Acad | | | |
| | | | So | ci. l | JS/ | 4, ۱ | /ol. | 95 | , pp. 14863-14 | 868 (1998 | 3) | • | | - | | | | | |
| | | | Er | mo | lae | va | et a | al., | "Data Manage | ment And | Analysis For Gene E | Expressi | pression Arrays," Nature Genet., | | | | | | |
| | | \bot | Vo | ol. 2 | 20, | <u>pp.</u> | <u>. 19</u> | -23 | 3 (1998) | <u> </u> | | | | | | | | | |
| | | | | | | | | | pp. 12079-120 | | g Analysis Of Gene Microarray Data," <i>Proc. Natl. Acad.Sc</i> 0) | | | | | | | | |
| | | + | | | | | | | | | /cation Of Nucleic Aci | ids By A | Multienz | vm | e Read | tion | | | |
| | | | | | | | | | | | c. Natl. Acad. Sci. U. | | | | | | | | |
| | | | | | | | | | | | nflammatory Disease | | | Usir | g cDN/ | 4 | | | |
| | | \perp | | | | | | | | | Vol. 94, pp. 2150-21 | | | , | | | | | |
| | | | | | | | | | | | rlying Gene Express Vol. 97(15), pp. 8409 | | | HICIT | y ⊢rom | | | | |
| | | +- | | | | | | | | | on Of Specific Clone | | | onfi | rmina T | he . | | | |
| | | | | | | | | | | | Enzymol, Vol. 152, j | | | | | | | | |
| , <u>-</u> | | \top | Κv | voh | n et | al. | , "T | ran | scription-Base | ed Amplific | ation System And De | etection | Of Ampli | fied | | | | | |
| | | | | | | | | | | | ead-based Sandwich | Hybridia | zation Fo | ma | t," <i>Proc</i> | . Natl. | | | |
| | ļ | + | | | | | | | /ol. 86, pp. 117 | | | | anas Mil | 0.4 | 4 4 | 077 1000 | | | |
| | | | | ına 988 | | en | et a | ત્રા. , | A Ligase-Med | nated Ger | ne Detection Techniq | ue, Sci | ence, vol | . 24 | ı, pp. 1 | 0/7-1080 | | | |
| EXAMINE | R | | 17. | | | | | | | DATE C | ONSIDERED | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | citation is in confo | | | | | | | | |
| applicant. | | ıı N | υίΙ | 111 (| JUN | ıı | 11118 | ıııC | e and not cor | isidered. | Include copy of the | is iorm | with nex | CC | mmun | เบลเเบก เป | | | |
| -PPIIVUIIC | | | | | | | | | | | | | | | | | | | |

| | | | | | | | | | | | | She | et | 3_ | _ of _ | 6 | | | |
|---------------------|------------------|----------|----------|----------|--------------|----------|--------------|----------------|----------------------------------------------|----------------|----------------------------------------------------|------------|----------|---------------------------------------|---------------------------------------|----------------------|--|--|--|
| FORM PTO- | 1449 | | | | | | | | OF COMMERCE | ATTY. DOC | CKET NO. | SERIAL | NO. | | | · | | | |
| | | | PA | NIE. | ΝI | ANI | ווע | łAD | EMARK OFFICE | ODT45 | CONTRACTOR | 10/753,107 | | | | | | | |
| | | | | | - • | | | | | ORT156 | | 10,70 | | | | | | | |
| | FORM | | - | | | | | | | Bittner | | | | | | | | | |
| | ITATI: Use s) | | | | | | | | | FILING DA | | GROUP | ADTI | NIT | | | | | |
| | (056.5 | eve | iai S | Het | 213 | 11 116 | 3003 | Sai | у) | 1 | ary 2004 | 1631 | Aniu | MII | | | | | |
| | | | | | | | | | | | , | | | | | | | | |
| | | | | | | | | | U.S. PAT | TENT DO | CUMENTS | | | | | | | | |
| EXAMINER INITIAL | | | | | | | | | | E | INVENTORS | CLASS | SUBC | LASS | | IG DATE ROPRIATE | | | |
| | US | 5 | 2 | 8 | 8 | 6 | 4 | 4 | February 22, | 1994 | Beavis et al. | | | | ļ | | | | |
| | US | 5 | 3 | 2 | 4 | 6 | 3 | | June 28, 1994 | | Fodor et al. | | | | <u> </u> | | | | |
| | US | 5 | 3 | | | 2 | 6 | | January 24, 1 | | Winkler et al. | | | - | · · · · · · · · · · · · · · · · · · · | | | | |
| | | | | | | | | | April 11, 1995 | 5 | Pirrung et al. | | | | | | | | |
| | | | | | | | | | May 2, 1995 | | McGall et al. | | | | | | | | |
| | US | | | | | | 8 | | June 13, 1995 | 5 | Fodor et al. | ļ | | | | | | | |
| | US | | 4 | | | | 0 | | July 4, 1995 | | Matson et al. | | | | | | | | |
| | US | | 4 | | | | | | July 11, 1995 | | Fischer et al. | | | | | • | | | |
| _ | US | 5 | 4 | <u> </u> | ΙO | 13 | 2 | 1/ | July 25, 1995 | | Southern et al. | <u></u> | <u> </u> | | l | | | | |
| | | | | | | | | | FOREIGN F | ΔΤΕΝΤ | DOCUMENTS | | | | | | | | |
| | | D | ocu | JME | ENT | NU | МВ | ER | DATE | | COUNTRY/REGION | CLASS | SUBC | LASS | | SLATION plicable) | | | |
| | | <u> </u> | | | _ | | <u> </u> | _ | · | | | | | • | | | | | |
| | | ╀ | \sqcup | | - | ـ | | ļ | | | | | | · · · · · · · · · · · · · · · · · · · | | | | | |
| | | ⊢ | H | | | \vdash | ├ | - | | | | - | | | | | | | |
| | | | | | | L | l | | <u>. </u> | | | L | L | | | | | | |
| | | | ОТІ | ΗE | R | DO | CU | ME | NTS (Includir | ng Author | , Title, Date, Pertine | ent Paq | es, Et | c.) | | | | | |
| | | | Lip | sh | utz | z et | al., | "H | igh Density Sy | nthetic Oli | gonucleotide Arrays, | " Nature | Gen | et. Suj | oplemer | nt, Vol. 21, | | | |
| | | <u> </u> | | | | | 199 | | | | | | | | | | | | |
| | | | | | | | | | | | Hybridization To Hig | h-Dens | ity Oli | gonucl | leotide A | Arrays," | | | |
| | | - | | | | | | | I., Vol. 14, pp. | | | Corios | nn 4 | 1 10 / | 1000) | | | | |
| | ļ | \vdash | | | | | | | | | s," <i>Nucl.Acids Symp.</i> ucleotide Reassocia | | | | | | | | |
| | | | | | | | | | | | Support," <i>Nucl. Acid</i> | | | | | 3-4660 | | | |
| | | | (19 | | | 015(| Juu | - | Cyrillicolocu O | n A Glass | Cupport, Ivaci. Acid | S 1163,) | , UI, Z | ردن), | pp. 4000 | J- 4 003 | | | |
| | | | | | | ci a | ind | Ca | ruthers, "Synth | esis Of De | eoxyoligonucleotides | On A F | olyme | er Sup | port ¹ ," J | '. Am. | | | |
| | | Ch | en | n. S | Soc | ., V | ol. | 103(11), pp. 3 | (1981) | | | | | | | | | | |
| | | | | | | | | | | | ng Groups,"Commu | nication | to Ed | itor, <i>J.</i> | Am. Ch | nem. Soc., | | | |
| | | ┞ | | | | | | | 333-6335 (197 | | | | | | | | | | |
| ! | i | | Sc | he | na " | et a | al., | "Pa | rallel Human C | Genome A | nalysis: Microarray-E | Based E | xpres | sion M | onitorin | g of 1000 | | | |
| EXAMINE | <u> </u> | <u></u> | JGe | :116 | s, | rr | UC. | iva | u. Acad. Sci. U | | 3, pp. 10614-10619 DNSIDERED | (1996) | | | | | | | |
| FVWININE | 1 | | | | | | | | | DATECC | MOIDENED | | | | | | | | |

EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

| | | | | | | | | | | | | Shee | t4_ | of | 6 | | | | |
|---------------------|-------------------------------|-------------------------------|-----|--------------|-----|------|------|----------|-----------------------------|-------------|--------------------------------------------|------------|--------------------|-----------|----------------------|--|--|--|--|
| FORM PTO- | 1449 | | | | | | | | OF COMMERCE EMARK OFFICE | ATTY. DOC | CKET NO. | SERIAL NO. | | | | | | | |
| | | | | | | | | | | ORT15 | 63NP | 10/753,107 | | | | | | | |
| INI | ORM | ΔΤ | 'n | N I | פום | SC | ו כ | SI | IRF | APPLICAN | | <u> </u> | - | | | | | | |
| | ITATI | | | | | | | | | Bittner | et al. | | | | | | | | |
| _ | (Use s | - | | | | | - | | | FILING DA | TE | ART UNIT | | | | | | | |
| | | | | | | | • | | | 06 Janu | ary 2004 | 1631 | | | | | | | |
| | | | | | | | | | U.S. PA | TENT DO | CUMENTS | <u>!</u> | <u></u> | | | | | | |
| EXAMINER INITIAL | | D | OCI | UME | ENT | r NU | ІМВ | ER | DAT | E | INVENTORS | CLASS | SUBCLASS | | G DATE ROPRIATE | | | | |
| US 5 4 4 5 9 3 4 A | | | | | | 9 | 3 | 4 | August 29, 19 | 995 | Fodor et al. | <u> </u> | | | | | | | |
| - | US 5 4 7 0 7 1 0 November 2 | | | | | | + | | November 28 | | Weiss et al. | | | | | | | | |
| | US | | | | | | | 2 | December 5, | 1995 | Brennan | | | | | | | | |
| | US 5 4 9 2 8 0 6 February 20, | | | | | | | | | 1996 | Drmanac et al. | | | | | | | | |
| | US | 5 | 5 | | | | 8 | | April 2, 1996 | | Cantor | | | | 4 | | | | |
| | US | S 5 5 1 0 2 7 0 April 23, 199 | | | | | | | | <u> </u> | Fodor et al. | | |] | | | | | |
| | | D | oci | UME | ENT | NU | МВ | ER | FOREIGN F | | DOCUMENTS COUNTRY/REGION | CLASS | SUBCLASS | | SLATION plicable) | | | | |
| | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | _ | | • | | | | | | | | | |
| | | - | | _ | _ | ↓_ | ↓_ | | | | | ļ | | | | | | | |
| | L | | 1 | l | I | | l | <u> </u> | <u></u> | | | <u> </u> | | | | | | | |
| | | | ΩТ | HE | B | DΩ | CH | ME | NTS (Includi | na Author | , Title, Date, Pertin | ant Dag | os Etc.) | | | | | | |
| | | T | | | | | | | | | 's Discovery Platforn | | | nomics ' | " Trende | | | | |
| | | | | | | | | | 16, pp. 301-306 | | o Bloodery Flation | 0 | ariotioriai ac | | richas | | | | |
| | | | Sr | nalc | n, | "G | ene | : E> | | | New Tool For Gend | mic Re | search," <i>Pa</i> | thol. Bio | I., Vol. | | | | |
| , | | | Τε | ama | ayo | et | al., | "In | terpreting Patt | | ene Expression With | | | | | | | | |
| | | | | oplio 999 | | | to | Hei | matopoietic Dif | ferentiatio | n," <i>Proc. Natl. Acad.</i> | Sci. US | A, Vol. 96, p | p. 2907 | -2912 | | | | |
| | | | | | | | | | | | mobilized Nucleic A | | | ncepts A | ind | | | | |
| | | - | | | | | | | | | nol., Vol. 152, pp. 39 | | | | | | | | |
| : | | | | | | | | | | | Expressed Genes In | | | | | | | | |
| i | | | | | | | | | 3065 (1998) | ialysis Col | upled To Microarray | Hybridiz | ation, ivuci | . ACIOS F | <i>tes</i> ., voi | | | | |
| | | ╁┈ | - | | | | | | | irces Of T | he National Center F | or Riote | chnology In | formatio | n " <i>Nucl</i> | | | | |
| | | | | | | | | | 29(1), pp. 11-16 | | no manonar ociner i | OI DIOIC | ointology in | iomatio | 11, 74001. | | | | |
| EXAMINE | R | | | | | , | | | | | ONSIDERED | | | <u> </u> | | | | | |
| | | | | | | | | | | | | | • | | | | | | |
| | | | | | | | | | | | itation is in confo Include copy of thi | | | | | | | | |

| 5 5 5 5 5 5 | P/ I B oct | N i Y Ashee | DIS AP ets | SC PPL if ne | LC | SI SAN SSAN | NT | ORT15 APPLICAN Bittner FILING DA 06 Janu | 63NP IT et al. TE Jary 2004 | 10/750 GROUP 1631 | _ | | |
|---------------------------------|----------------------------------|-------------------------------------------------|-------------------------------------------------------------|----------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------|------------------------------------------|-----------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------|
| 5 5 5 5 5 | P/ I B occi 5 5 5 | N i Y Ashee | DIS AP ets | SC PPL if ne | LC LIC | SI SAN SSAN | JRE NT y) | ORT15 APPLICAN Bittner FILING DA 06 Janu | 63NP IT et al. TE Jary 2004 | 10/750 | 3,107 | | |
| 5 5 5 5 5 | ocu 5 5 5 5 5 5 | Y / shee | AP ets | Pl if ne | LIC | SAN | NT y) | Bittner FILING DA 06 Janu | et al. TE Jary 2004 | GROUP | | | |
| 5 5 5 5 5 | ocu 5 5 5 5 5 5 | Y / shee | AP ets | Pl if ne | LIC | SAN | NT y) | Bittner FILING DA 06 Janu | et al. TE Jary 2004 | | ART UNIT | | |
| 5 5 5 5 5 | ocu 5 5 5 5 5 5 | Y / shee | AP ets | Pl if ne | LIC | SAN | NT y) | FILING DA 06 Janu | те Jary 2004 | | ART UNIT | | |
| 5 5 5 5 5 | ocu 5 5 5 5 5 | JME | ets i | if ne | eces | ssar | у) | 06 Janı | uary 2004 | | ART UNIT | | |
| 5 5 5 5 5 5 5 | 5 5 5 | JМЕ | ENT | NU | | | | 06 Janı | uary 2004 | | AIII OIIII | | |
| 5 5 5 5 5 5 | 5 5 5 5 | 1 2 | 4 | | IMB | ER | U.S. PAT | | • | | | | |
| 5 5 5 5 5 5 | 5 5 5 5 | 1 2 | 4 | | IMB | ER | U.S. PAT | FNT DO | 2011145152 | | | | |
| 5 5 5 5 5 5 | 5 5 5 5 | 1 2 | 4 | | MB | ER | | · | | | | | |
| 5 5 5 5 5 5 | 5 5 5 | 2 | | Τ- | | - | DATE | | INVENTORS | CLASS | SUBCLASS | FILING IF APPRO | DATE OPRIAT |
| 5 5 5 5 5 5 | 5 5 5 | 2 | | 15 | 4 | 5 | May 7, 1996 | | Eberwine | | | | |
| 5 5 5 5 5 | 5 5 | t <u>-</u> | 5 | | | | June 11, 1996 | 3 | Drmanac et al. | 1 | | | |
| 5 5 5 5 | 5 | 12 | 7 | | | 1 | June 18, 1996 | | Holmes | | | | |
| 5 5 5 5 | 5 | 2 | 9 | | 5 | 6 | June 25, 1996 | | Brennan | 1 | | | |
| 5 5 | 10 | 4 | 5 | 5 | 3 | 1 | August 13, 19 | 96 | Rava et al. | | | | |
| 5 | 5 | 4 | 7 | 8 | 3 | 9 | August 20, 19 | 96 | Dower et al. | | | | |
| | | 5 | | | 0 | 1 | September 10 |), 1996 | Coassin et al. | | | | * |
| | | | 6 | | 5 | 2 | September 17 | ', 1996 | Lockhart et al. | | | | |
| 5 | 5 | 6 | 1 | | 7 | 1 | October 1, 19 | | Hollenberg et al. | | | | |
| 5 | 5 | 7 | | | 3 | | November 5, | | Hubbell et al. | | | | |
| 5 | | 8 | 0 | | 3 | 2 | | | Grossman et al. | <u> </u> | | | |
| 5 | | 9 | 3 | 8 | 3 | 1 | January 14, 1 | | Hubbell et al. | | | ·-· | |
| 5 | 6 | 2 | 4 | 7 | 1 | 1 | April 28, 1997 | | Sundberg et al. | ļ | | | |
| 5 | | 6 | | | 2 | - | August 26, 19 | | Foote | | | | |
| 5 | 7 | 0 | 0 | | 3 | 7 | December 23 | | Southern | 1 | | | |
| 5 | 7 | 4 | 4 | | 0 | $\overline{}$ | April 28, 1998 | | Fodor et al. | ļ | | | |
| 5 | 7 | 7 | _ | - | 5 | _ | June 23, 1998 | | Holmes | | | | |
| | | 1/2 | | | _ | | | | | | | | |
| | | | | | _ | +- | | | | ļ | | | |
| | | | | | + | 14 | | | | <u> </u> | | | |
| | | | | | - | <u> </u> | | | 4 | | | | |
| | | _ | _ | _ | | | | | | | | | |
| | ļo. | <u> </u> | <u>1</u> 5 | 10 | 10 | | | | <u>.</u> | | | | |
| Тп | OCI | IME | NT | NII | MRI | | | | | CI ASS | SURCI ASS I | TRANSI | ATION |
| | | | | 110 | T | | DAIL | - | COOKINI/AEGION | CLASS | SOBOLAGO | | |
| - | \vdash | - | \vdash | - | ├ | ┼ | <u> </u> | | | ļ | | | |
| | \vdash | \vdash | \vdash | - | - | ┼ | | | | ļ | | | |
| | <u>L</u> | <u> </u> | L | L | | Ц | L | | 1 | J | | | |
| | ОТ | HE | R | 00 | Cυ | ΜE | NTS (Includir | ng Autho | , Title, Date, Pertino | ent Pag | es, Etc.) | | |
| | | | | | | | | | | | | | |
| 二 | | ٠.، ال | , 00 | <u> </u> | | .,41 | | p.a.c De | portaoni Ligation, C | .5,10,1110 | o, voi. 1, pp. | | |
| | <u> </u> | | | | | | | DATE CO | DNSIDERED | | | | |
| | | | | | | | | ~ | | | | | |
| | 5 5 5 5 5 | 5 7 5 8 5 8 5 8 5 8 5 8 0 5 8 | 5 7 7 7 5 8 3 5 8 4 5 8 5 5 8 7 5 8 8 8 8 8 8 8 8 8 8 8 8 8 | 5 7 7 0 5 8 3 7 5 8 4 8 5 8 5 6 5 8 7 4 5 8 8 5 DOCUMENT OTHER I Wu et al Using Se | 5 7 7 0 7 5 8 3 7 8 5 8 4 8 6 5 8 5 6 1 5 8 7 4 2 5 8 8 5 8 DOCUMENT NU OTHER DO Wu et al., " Using Sequential if citation c | 5 7 7 0 7 2 5 8 3 7 8 3 5 8 4 8 6 5 5 8 5 6 1 0 5 8 7 4 2 1 5 8 8 5 8 3 DOCUMENT NUMB OTHER DOCU Wu et al., "The Using Sequen tial if citation cons | 5 | 5 | 5 | 5 7 7 0 7 2 2 June 23, 1998 Lockhart et al. 5 8 3 7 8 3 2 November 17, 1998 Chee et al. 5 8 4 8 6 5 9 December 15, 1998 Karg et al. 5 8 5 6 1 0 1 January 5, 1999 Hubbell et al. 5 8 7 4 2 1 9 February 23, 1999 Rava et al. 5 8 8 5 8 3 7 March 23, 1999 Winkler et al. FOREIGN PATENT DOCUMENTS DOCUMENT NUMBER DATE COUNTRY/REGION OTHER DOCUMENTS (Including Author, Title, Date, Pertine Using Sequential Rounds Of Template-Dependent Ligation," General Country of C | 5 7 7 0 7 2 2 June 23, 1998 Lockhart et al. 5 8 3 7 8 3 2 November 17, 1998 Chee et al. 5 8 4 8 6 5 9 December 15, 1998 Karg et al. 5 8 5 6 1 0 1 January 5, 1999 Hubbell et al. 5 8 7 4 2 1 9 February 23, 1999 Rava et al. 5 8 8 5 8 3 7 March 23, 1999 Winkler et al. FOREIGN PATENT DOCUMENTS DOCUMENT NUMBER DATE COUNTRY/REGION CLASS | 5 7 7 8 3 7 8 3 2 November 17, 1998 Chee et al. 5 8 4 8 6 5 9 December 15, 1998 Karg et al. 5 8 7 4 2 1 9 February 23, 1999 Hubbell et al. 5 8 8 7 4 2 1 9 February 23, 1999 Rava et al. 5 8 8 5 8 3 7 March 23, 1999 Winkler et al. FOREIGN PATENT DOCUMENTS DOCUMENT NUMBER DATE COUNTRY/REGION CLASS SUBCLASS OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.) Wu et al., "The Ligation Amplification Reaction (LAR)-Amplification Of Specific DN/Using Sequential Rounds Of Template-Dependent Ligation," Genomics, Vol. 4, pp. DATE CONSIDERED | 5 |

| | | | | | | | | | | | · | S | hee | t6_ | 0 | f | _6 | | | | |
|---------------------|-----------------------------------------------------------------------|-------------|----------|------|----------|------------|--------|----------|---------------|-------------------|--------------------------------|-------------|------------|----------------|---------------|-------|------------------|--|--|--|--|
| FORM PTO- | ORM PTO-1449 U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE | | | | | | | | | | OCKET NO. | SE | SERIAL NO. | | | | | | | | |
| | | | PA | ATE | NT | A۱ | ND TE | RAD | EMARK OFFICE | 007/700/10 | | | 10/753,107 | | | | | | | | |
| | | | | | | | | | | | ORT1563NP APPLICANT | | | 10/753,107 | | | | | | | |
| | FORM | | | | | | - | _ | | 1 | r et al. | | | | | | | | | | |
| | (Use | seve | rals | she | ets | if r | neces | sar | ry) | 1 | FILING DATE 06 January 2004 | | | GROUP ART UNIT | | | | | | | |
| | | | | | | | | | · | | | | | | _ | | | | | | |
| | | | | | | | | | U.S. PAT | rent (| DOCUMENTS | | | | | | | | | | |
| EXAMINER INITIAL | | D | oci | UMI | ENT | · N | υмв | ER | DATE | | INVENTORS | CL | .ASS | SUBCLASS | | | DATE PRIATE | | | | |
| | US | 5 | 9 | 1 | 9 | T 5 | 2 | 3 | July 6, 1999 | | Sundberg et al. | | | | | | | | | | |
| , | US | 6 | 0 | 2 | | | | 3 | | 000 | McGall et al. | | | | | | | | | | |
| | US | 6 | 0 | 7 | 7 | 6 | 7 | 4 | June 20, 2000 | | Schleifer et al. | | | _ | | | | | | | |
| | US | 6 | | 9 | 3 | 3 | 0 | 2 | July 25, 2000 | | Montgomery | | | | | | | | | | |
| | US | 6 | | 5 | 6 | 5 | | 1 | December 5, | 2000 | McGall et al. | | | | | | | | | | |
| | US | 6 | 2 | 8 | 0 | 5 | 9 | 5 | August 28, 20 | 01 | Montgomery | | | | | | | | | | |
| | | | L | | | L | | | | | | | | | | | | | | | |
| | | | | | L | | | <u> </u> | | | | | | | | | | | | | |
| | | D | oci | UME | ENT | N | UMB | ER | FOREIGN F | | T DOCUMENTS COUNTRY/REGIO | | .ASS | SUBCLAS | | | .ATION cable) | | | | |
| | | _ | <u> </u> | ļ | ╀ | L | \bot | - | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | |
| | | + | - | ļ. | ╀╌ | ╀ | - | ┢ | | | | | | | | | | | | | |
| | ļ | | ⊢ | ├ | ╀ | ╀ | | ╀ | | - | | | | | - | | | | | | |
| | | + | ┢ | - | ┢ | ╀ | + | ┢ | | | | | | | | | | | | | |
| | L | ٠ | <u></u> | L | <u> </u> | L. | | <u> </u> | | | 7 | | | L | | | | | | | |
| • | | | ОТ | HE | R | DC | ocu | ME | NTS (Includii | ng Auth | or, Title, Date, Per | rtinent | Pag | es, Etc.) | | | | | | | |
| | | + | ┝ | | | | | | | | _ | | | | | | | | | | |
| | | + | ╀ | | | | | | | | | | | | | | | | | | |
| | | +- | | - | | - | | | | | | | | | | | | | | | |
| | | + | \vdash | | | | | | | | | | | | | - | | | | | |
| | | + | \vdash | | | | | | | | | | | | | | | | | | |
| | - | +- | - | | - | | | | | | | | | | | | | | | | |
| | | + | H | | | | - | | | | | | | | | | | | | | |
| | | \top | Т | | | _ | | | | | | | | - | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | |
| EXAMINE | R | | | | | | | | | DATE (| CONSIDERED | | | | | | | | | | |
| EXAMINE through c | R: Initi | ial if | f ci | itat | tior | n (| cons | sid | ered, whether | or not sidered | citation is in co | nforma | nce | with MP | EP 60 comn | 9; Dr | aw line | | | | |
| applicant. | | | | | | | | | | | | | | | | | | | | | |

.

٠